

#6

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/531,844  
Source: PT/10  
Date Processed by STIC: 4/27/05

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 04/27/2005

PATENT APPLICATION: US/10/531,844

TIME: 14:38:36

Input Set : A:\PTO.SR.txt

Output Set: N:\CRF4\04272005\J531844.raw

3 <110> APPLICANT: Jahic, Haris  
 5 <120> TITLE OF INVENTION: Screening Assay to Identify Inhibitors of the Murd Enzyme  
 Using an 6 Activator-Independent Murd Enzyme  
 8 <130> FILE REFERENCE: ASZD-P01-874  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/531,844  
 C--> 10 <141> CURRENT FILING DATE: 2005-04-18  
 10 <150> PRIOR APPLICATION NUMBER: GB 0224997.7  
 11 <151> PRIOR FILING DATE: 2002-10-26  
 13 <160> NUMBER OF SEQ ID NOS: 4  
 15 <170> SOFTWARE: PatentIn version 3.2  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 463  
 19 <212> TYPE: PRT  
 20 <213> ORGANISM: Escherichia Coli bacterium  
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 24 <221> NAME/KEY: misc\_feature  
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 26 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
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 56 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
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DATE: 04/27/2005

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Input Set : A:\PTO.SR.txt

Output Set: N:\CRF4\04272005\J531844.raw

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70 <222> LOCATION: (408)..(409)
71 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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74 <221> NAME/KEY: misc_feature
75 <222> LOCATION: (460)..(463)
76 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
78 <400> SEQUENCE: 1
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81 1 5 10 15
84 Leu Gly Leu Thr Gly Leu Ser Cys Val Asp Phe Phe Leu Ala Arg Gly
85 20 25 30
88 Val Thr Pro Arg Val Met Asp Thr Arg Met Thr Pro Pro Xaa Xaa Xaa
89 35 40 45
92 Gly Leu Asp Lys Leu Pro Glu Ala Val Glu Arg His Thr Gly Ser Leu
93 50 55 60
96 Asn Asp Glu Trp Leu Met Ala Ala Xaa Asp Leu Ile Val Ala Ser Pro
97 65 70 75 80
100 Gly Ile Ala Leu Ala His Pro Ser Leu Ser Ala Ala Ala Asp Ala Gly
101 85 90 95
104 Ile Glu Ile Val Gly Asp Ile Glu Leu Phe Cys Arg Glu Ala Gln Ala
105 100 105 110
108 Pro Ile Val Ala Ile Thr Gly Ser Asn Gly Lys Ser Thr Val Thr Thr
109 115 120 125
112 Leu Val Gly Glu Met Ala Lys Ala Ala Gly Val Asn Val Xaa Xaa Gly
113 130 135 140
116 Val Gly Gly Asn Ile Gly Leu Pro Ala Xaa Xaa Leu Met Leu Leu Asp
117 145 150 155 160
120 Asp Glu Cys Glu Leu Tyr Val Leu Glu Leu Ser Ser Phe Gln Leu Glu
121 165 170 175
124 Thr Thr Ser Ser Leu Gln Ala Val Ala Ala Thr Ile Leu Asn Val Thr
125 180 185 190
128 Glu Asp His Met Asp Arg Tyr Pro Phe Gly Leu Gln Gln Tyr Arg Ala
129 195 200 205
132 Ala Lys Leu Arg Ile Tyr Glu Asn Ala Lys Val Cys Val Val Asn Ala
133 210 215 220
136 Asp Asp Ala Leu Thr Met Pro Ile Arg Gly Xaa Ala Asp Glu Arg Cys
137 225 230 235 240
140 Val Ser Phe Gly Val Asn Xaa Xaa Xaa Met Gly Asp Tyr His Leu Asn
141 245 250 255
144 His Gln Gln Gly Glu Thr Trp Leu Arg Val Lys Gly Glu Lys Val Leu

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Input Set : A:\PTO.SR.txt

Output Set: N:\CRF4\04272005\J531844.raw

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148 Asn Val Lys Glu Met Lys Leu Ser Gly Gln His Asn Tyr Thr Asn Ala
149          275          280          285
152 Leu Ala Ala Leu Ala Leu Ala Asp Ala Ala Gly Leu Pro Arg Ala Ser
153          290          295          300
156 Ser Leu Lys Ala Leu Thr Thr Phe Thr Gly Leu Pro His Arg Phe Glu
157 305          310          315          320
160 Val Val Leu Glu His Asn Gly Val Arg Trp Ile Asn Asp Ser Lys Ala
161          325          330          335
164 Thr Asn Val Gly Ser Thr Glu Ala Ala Leu Asn Xaa Xaa Gly Leu His
165          340          345          350
168 Val Asp Gly Thr Leu His Leu Leu Leu Gly Gly Asp Gly Lys Ser Ala
169          355          360          365
172 Asp Phe Ser Pro Leu Ala Arg Tyr Leu Asn Gly Asp Asn Val Arg Leu
173          370          375          380
176 Tyr Cys Phe Gly Arg Asp Gly Ala Gln Leu Ala Ala Leu Arg Xaa Xaa
177 385          390          395          400
180 Pro Glu Val Ala Glu Gln Thr Xaa Xaa Glu Thr Met Glu Gln Ala Met
181          405          410          415
184 Arg Leu Leu Ala Pro Arg Val Gln Pro Gly Asp Met Val Leu Leu Ser
185          420          425          430
188 Pro Ala Cys Ala Ser Leu Asp Gln Phe Lys Asn Phe Glu Gln Arg Gly
189          435          440          445
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196 <210> SEQ ID NO: 2
197 <211> LENGTH: 463
198 <212> TYPE: PRT
199 <213> ORGANISM: Escherichia faecalis bacterium
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205 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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224 <222> LOCATION: (380)..(380)
225 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

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DATE: 04/27/2005

TIME: 14:38:36

Input Set : A:\PTO.SR.txt

Output Set: N:\CRF4\04272005\J531844.raw

227 &lt;400&gt; SEQUENCE: 2

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229 Met Lys Lys Ile Thr Thr Tyr Gln Asn Lys Lys Val Leu Val Leu Gly
230 1 5 10 15
233 Leu Ala Lys Ser Gly Val Ser Ala Ala Lys Leu Leu His Glu Leu Gly
234 20 25 30
237 Ala Leu Val Thr Val Asn Asp Ala Lys Gln Phe Asp Gln Asn Pro Asp
238 35 40 45
241 Ala Gln Asp Leu Leu Thr Leu Gly Ile Arg Val Val Thr Gly Gly His
242 50 55 60
245 Pro Ile Glu Leu Leu Asp Glu Glu Phe Glu Leu Ile Val Lys Asn Pro
246 65 70 75 80
249 Gly Ile Leu Tyr Thr Asn Pro Leu Val Ala Glu Ala Leu Thr Arg Lys
250 85 90 95
253 Ile Pro Ile Ile Thr Glu Val Glu Leu Ala Gly Gln Ile Ala Glu Cys
254 100 105 110
257 Pro Ile Val Gly Ile Thr Gly Thr Asn Gly Lys Thr Thr Thr Thr Thr
258 115 120 125
261 Met Ile Gly Leu Leu Leu Asn Ala Asp Arg Thr Ala Gly Glu Ala Arg
262 130 135 140
265 Leu Ala Gly Asn Ile Gly Phe Pro Ala Ser Thr Val Ala Gln Glu Ala
266 145 150 155 160
269 Thr Ala Lys Asp Asp Leu Val Met Glu Leu Ser Ser Phe Gln Leu Met
270 165 170 175
273 Gly Ile Glu Thr Phe His Pro Gln Ile Ala Val Ile Thr Asn Ile Phe
274 180 185 190
W--> 277 Glu Ala His Leu Asp Tyr His Xaa Gly Ser Arg Lys Glu Tyr Val Ala
278 195 200 205
281 Ala Lys Trp Ala Ile Gln Lys Asn Met Thr Ala Glu Asp Thr Leu Ile
282 210 215 220
285 Leu Asn Trp Asn Gln Val Glu Leu Gln Thr Leu Ala Lys Thr Thr Ala
286 225 230 235 240
289 Ala Asn Val Leu Pro Phe Ser Thr Lys Glu Ala Val Glu Gly Ala Tyr
290 245 250 255
293 Leu Leu Asp Gly Xaa Xaa Lys Leu Tyr Phe Asn Glu Glu Tyr Ile Met
294 260 265 270
297 Pro Ala Asp Glu Leu Gly Ile Pro Gly Ser His Asn Ile Glu Asn Ala
298 275 280 285
301 Leu Ala Ala Ile Cys Val Pro Lys Leu Lys Asn Val Ser Asn Ala Gln
302 290 295 300
305 Ile Lys Gln Ser Leu Thr Asn Phe Ser Gly Val Pro His Arg Thr Gln
306 305 310 315 320
309 Phe Val Gly Glu Val Gln Gln Arg Arg Phe Tyr Asn Asp Ser Lys Ala
310 325 330 335
313 Thr Asn Phe Leu Ala Thr Glu Met Ala Leu Ser Xaa Xaa Gly Phe Asp
314 340 345 350
317 Asn Gln Lys Leu Leu Leu Leu Ala Gly Gly Leu Asp Xaa Arg Gly Asn
318 355 360 365
321 Ser Phe Asp Glu Leu Val Pro Ala Leu Leu Gly Xaa Leu Lys Ala Ile
322 370 375 380

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Input Set : A:\PTO.SR.txt

Output Set: N:\CRF4\04272005\J531844.raw

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325 Val Leu Phe Gly Glu Thr Lys Lys Lys Leu Ala Glu Ala Ala Lys Lys
326 385                      390                      395                      400
329 Pro Asn Ile Glu Thr Ile Leu Phe Ala Glu Asn Val Gln Thr Ala Val
330                      405                      410                      415
333 Thr Ile Ala Phe Asp Tyr Ser Glu Lys Asp Asp Thr Ile Leu Leu Ser
334                      420                      425                      430
337 Pro Ala Cys Ala Ser Trp Asp Gln Tyr Pro Asn Phe Glu Val Arg Gly
338                      435                      440                      445
341 Glu Ala Phe Met Gln Ala Val Gln Gln Leu Lys Glu Ser Glu Met
342                      450                      455                      460
345 <210> SEQ ID NO: 3
346 <211> LENGTH: 463
347 <212> TYPE: PRT
348 <213> ORGANISM: Pseudomonas aeruginosa bacterium
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384 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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388 <222> LOCATION: (460)..(463)
389 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
391 <400> SEQUENCE: 3
W--> 393 Xaa Xaa Met Ser Leu Ile Ala Ser Asp His Phe Arg Ile Val Val Gly
394 1                      5                      10                      15

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/531,844

DATE: 04/27/2005  
TIME: 14:38:37

Input Set : A:\PTO.SR.txt  
Output Set: N:\CRF4\04272005\J531844.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. ~~1,2,3,46,47,48,73,142,143,154,155,235,247,248,249,348,349~~

Seq#:1; Xaa Pos. ~~399,400,408,409,460,461,462,463~~

Seq#:2; Xaa Pos. ~~200,261,262,348,349,365,380~~

Seq#:3; Xaa Pos. ~~1,2,73,142,143,154,155,200,235,399,400,460,461,462,463~~

Seq#:4; Xaa Pos. 73,142,143,200,235,261,262,348,349,353,365,380,401,463

## VERIFICATION SUMMARY

DATE: 04/27/2005

PATENT APPLICATION: US/10/531,844

TIME: 14:38:37

Input Set : A:\PTO.SR.txt

Output Set: N:\CRF4\04272005\J531844.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
M:341 Repeated in SeqNo=1  
L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:192  
M:341 Repeated in SeqNo=2  
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
M:341 Repeated in SeqNo=3  
L:588 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:64  
M:341 Repeated in SeqNo=4